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APPLICATION NO. FILING DATE FIRE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/886,487	06/22/2001	Ravi Kanth V. Kothuri	19111.0042	6094		
23517	7590 09/29/2004		EXAM	EXAMINER		
SWIDLER BERLIN SHEREFF FRIEDMAN, LLP			LE, UYEN T			
3000 K STR BOX IP	EEI, NW		ART UNIT	PAPER NUMBER		
WASHINGTON, DC 20007			2171	12		
			DATE MAILED: 09/29/2004	• ·		

Please find below and/or attached an Office communication concerning this application or proceeding.

A)

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Office Action Summary		Appli	ication No.	Applicant(	s)	(4)			
		09/88	86,487	KOTHURI I	ET AL.	O'			
		Exam	niner	Art Unit					
		Uyen	T. Le	2171					
	The MAILING DATE of this communic	cation appears of	n the cover shee	t with the corresponde	nce address				
Period fo	• •	ND DEDLY 10 05		• MONTH/O) FDOM					
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) period for reply is specified above, the maximum state to reply within the set or extended period for reply wreply received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	CATION.  of 37 CFR 1.136(a). In unication.  of days, a reply within the utory period will apply a will, by statute, cause the	no event, however, ma e statutory minimum o and will expire SIX (6) le application to becom	ay a reply be timely filed  f thirty (30) days will be conside  MONTHS from the mailing date the ABANDONED (35 U.S.C. 6	of this communicati	ion.			
Status									
1)	Responsive to communication(s) filed	on 17 August 2	2004						
·	☐ This action is <b>FINAL</b> . 2b) ☐ This action is non-final.								
• —	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims				•				
·	Claim(s) 1-57 is/are pending in the ap	onlication							
	4a) Of the above claim(s) is/are withdrawn from consideration.								
	Claim(s) <u>1,29,46 and 47</u> is/are allowed								
· · · · · · · · · · · · · · · · · · ·	∑ Claim(s) <u>2-28,30-45,48-57</u> is/are rejected.								
7)	Claim(s) is/are objected to.								
8)□	Claim(s) are subject to restrict	ion and/or electi	on requirement.						
Applicati	on Papers								
9)	The specification is objected to by the	Examiner.							
•	The drawing(s) filed on is/are:		or b) objected	to by the Examiner.					
	Applicant may not request that any object	•	· ·	•	35(a).				
	Replacement drawing sheet(s) including	the correction is re	equired if the drav	ving(s) is objected to. See	e 37 CFR 1.121	(d).			
11)[	The oath or declaration is objected to	by the Examine	r. Note the attac	ched Office Action or fo	orm PTO-152.				
Priority (	ınder 35 U.S.C. § 119								
12)[	Acknowledgment is made of a claim fo	or foreign priority	under 35 U.S.	C. § 119(a)-(d) or (f).					
	☐ All b)☐ Some * c)☐ None of:								
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority of	locuments have	been received i	n Application No	•				
	3. Copies of the certified copies of	f the priority doc	uments have be	een received in this Na	ational Stage				
	application from the Internation	•	` ''						
* 5	See the attached detailed Office action	for a list of the	certified copies	not received.					
		ALA							
Attachmen	t(s)	the							
	e of References Cited (PTO-892)		4) 🔲 Intervi	ew Summary (PTO-413)					
	e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449 or F			No(s)/Mail Date of Informal Patent Applicati	on (PTO-152)				
	r No(s)/Mail Date	. 5.05.00)	6) Other:		( · · · · · · · · · · · · · · · · ·				

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### **DETAILED ACTION**

### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 17 August 2004 has been entered.

# Claim Objections

- 2. The numbering of claims is now improper due to the amendment filed 17 August 2004, which added independent claims 48, 52, 56, 57 and made many original claims depend from the newly added claims.
- 3. The examiner suggests that applicant cancels all claims and submits a new set of claims grouping claims in proper order to facilitate examination regarding dependency and to avoid inadvertent lacks of antecedent basis throughout the claims.
- 4. Applicant is kindly requested to point to specific part(s) of the specification for support for the newly added and amended claims.

## Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

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5. Claims 48, 2-28, 49-51, 52-55, 30-45, 56, 57 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The basis of this rejection is set forth in a two-prong test of:

- (1) whether the invention is within the technological arts; and
- (2) whether the invention produces a useful, concrete, and tangible result.

For a claimed invention to be statutory, the claimed invention must be within the technological art. Mere ideas in the abstract (i.e., abstract idea, law of nature, natural phenomena) that do not apply, involve, use, or advance the technological art fail to promote the "progress of science and the useful arts" (i.e., the physical sciences as opposed to social sciences, for example) and therefore are found to be non-statutory subject matter. For a method claim to pass muster, the recited process must somehow apply, involve, use, or advance the technological arts.

As to technological arts recited in the preamble, mere recitation in the preamble (i.e., intended or field of use) or mere implication of employing a machine or article of manufacture to perform some of the recited steps does not confer statutory subject matter to an otherwise abstract idea unless there is positive recitation in the claim as a whole to breathe life and meaning into the preamble. In Bowman (Ex parte Bowman, 61 USPQ2d 1665, 1671 (BD. Pat. App. & Inter. 2001) (Unpublished), the board affirmed the rejection under U.S.C. 101 as being directed to non-statutory subject matter. Although Bowman discloses transforming physical media into a chart and physically plotting a point on said chart, the Board held that the claimed invention is nothing more than an abstract idea, which is not tied to any technological art or environment.

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In the present case, claims 48, 52 recite an abstract idea of determining relationship among objects using geometries which can be implemented by the mind of a person or by the use of a pencil and paper. Claims 56, 57 although recited as a system and computer program product merely include components and instructions for solving a mathematical algorithm at best. In other words, since the claimed invention, as a whole, does not apply, involve, use, advance the technological arts, nor produces a useful, concrete, and tangible result, thus it is deemed to be directed to non-statutory subject matter.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claims 2-28, 30-45, 48-57 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Due to the amendment filed 17 August 2004 adding claims 48-57 and revising the dependency of claims 2-28, 30-45, antecedent basis is lacking in many claims for example claim 22, "wherein determining whether the first geometry and the second geometry fulfill the secondary filter condition comprises mathematically comparing the first geometry and the second geometry', claim 23 "the secondary filter condition".

## Allowable Subject Matter

7. Claims 1, 29, 46, 47 are allowed as indicated in the previous Office Action.

#### Conclusion

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8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Uyen T. Le whose telephone number is 703-305-4134.

The examiner can normally be reached on M-F 7:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

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supervisor, Safet Metjahic can be reached on 703-308-1436. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

9. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

24 September 2004

UYEN LE PRIMARY EXAMINER